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structure, Crystal lattice defects, Metallography.

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Order from SLA \$1.60 62-20187

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DESCRIPTORS: *Cast iron, Liquid metals, Casting,
Graphite, Slags, Tensile properties, Austria.

Three methods of developing high-strength cast iron,
e. g. overheating, influencing the slag and the formation
of globular graphite, are described. A method based on
the addition of Ca-Mg-Si-Fe alloys in the ladle with
subsequent inoculation with Fe-Si or Ca-Si is de-
scribed. This method was also applied successfully to
acid cupola iron containing up to 0.12% sulfur at tempera-
tures ranging from 1250° to 1350° C. The basic lined
cupola furnace was tried as an economic equipment for
(Metallurgy--Ferrous Metals, TT, v. 9, no. 10)(over)

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The factors shown by statistical study to exert the greatest influence on the quality of the finished ingots, are described. Acceptable quality steels can be produced with coke pig iron. Care must always be taken to see that the manganese content of the charge is adequate. Initially, the rate of carbon elimination should be high (0.1% carbon in 10 minutes), falling gradually during the slag boil to 0.05% carbon per 10 minutes, and during the last half hour of working the heat, should not exceed 0.02% in ten minutes. The optimum tapping temperature for a steel containing 0.20% carbon and 0.70% manganese is 1590-1600°C. Deoxidation is (Metallurgy--Ferrous Metals, TT, v. 5, no. 2) (over)

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2. Title: Forging ingots
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Sci - Min/Met
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The existing solutions of Fourier's differential equation for a nonstationary temperature field are combined into a simple approximation equation, from which it is possible to calculate with sufficient accuracy from the temperature conditions in the heat-storing elements the coefficients of heat transfer for the reversal half-periods. Graphical methods for doing this very simply are indicated. The dimensions of the various parts of regenerators, both with stationary and with moving (rotating) heat storage masses, are calculated. A method of working out the economic value of a regenerator is indicated, and with various assumptions which (Engineering--Mechanical, TT, v. 5, no. 2) (over)

60-18848

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41 refs.

Order from SLA \$3.60

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DESCRIPTORS: *Alloys, Metallurgical analysis,
*Crystal structure, Phase studies, *X-ray analysis,
Chemical analysis

The structure of most crystalline and intermediate
metal-metalloid-phases known in alloys is discussed,
keeping residue analysis in mind. After discussing
the reasons for association of real metal phases with
metalloid-containing phases in technical alloys and
(Metallurgy--Structural, TT, v. 7, no. 4) (over)

61-20845

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II. Wittmann, A.

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